

ABSTRACT OF THE DISCLOSURE

A film-forming device with a substrate rotating mechanism, comprises: a susceptor 30 in the form of a circular disk; a base  
5 plate 6 positioned below the susceptor 30 and rotatably retaining the susceptor 30; a revolution generating section 5 rotating the susceptor 30 at the outer periphery of the susceptor 30; a plurality of substrate tray retaining sections 23 arranged on the susceptor 30; a plurality of annular substrate trays 20 rotatably supported  
10 in the corresponding substrate tray retaining sections 23; a rotation generating section 4 rotating the substrate trays 20; and a plurality of substrates W retained in the substrate trays 20. The substrates W are revolved by the rotation of the susceptor 30 and rotated by the rotation of the substrate trays 20 to apply  
15 a certain film-forming process. The substrates W are rotated and revolved by one or more revolution generating section 5 and the rotation generating section 4.